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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/589,109	06/08/2000	Yuusuke Nakano	44239-069	1401		
20277 75	590 08/12/2004	EXAMINER				
MCDERMOTT WILL & EMERY LLP 600 13TH STREET, N.W. WASHINGTON, DC 20005-3096			WU, JII	WU, JINGGE		
			ART UNIT	PAPER NUMBER		
			2623	11		
		,	DATE MAILED: 08/12/2004	4		

Please find below and/or attached an Office communication concerning this application or proceeding.

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•		Application	n No.	Applicant(s)	7		
Office Action Summary		09/589,10	9	NAKANO, YUUSUKI	E		
		Examiner	· - · · · · · · · · · · · · · · · · · ·	Art Unit			
		Jingge Wu		2623			
Period f	The MAILING DATE of this communion Reply	ication appears on the	cover sheet with the c	correspondence addr	ess		
THE - Exte after - If the - If NO - Failt Any	MORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNI ensions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this common in the proof of the period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply reply received by the Office later than three months a need patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no eve unication. D) days, a reply within the statu tutory period will apply and wil will, by statute, cause the appli	nt, however, may a reply be tin tory minimum of thirty (30) day I expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely. the mailing date of this comi D (35 U.S.C. § 133).	munication.		
Status			•				
1)🛛	Responsive to communication(s) file	d on 20 May 2004.					
2a)□							
3)□							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	tion of Claims						
5) <u> </u>	Claim(s) <u>1-11</u> is/are pending in the at 4a) Of the above claim(s) <u>6-9</u> is/are via Claim(s) <u>1-5,10 and 11</u> is/are rejected Claim(s) <u>10 is/are objected to.</u> Claim(s) <u>are subject to restrict</u>	vithdrawn from consided.					
Applicat	tion Papers						
9)[The specification is objected to by the	e Examiner.					
•	The drawing(s) filed on is/are:		objected to by the	Examiner.			
	Applicant may not request that any object	ction to the drawing(s) b	e held in abeyance. Se	e 37 CFR 1.85(a).			
_	Replacement drawing sheet(s) including	Z	- ,	•	• •		
11)	The oath or declaration is objected to	by the Examiner. No	te the attached Office	Action or form PTO	-152 .		
Priority	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internatio See the attached detailed Office actio	documents have been documents have been of the priority documental Bureau (PCT Rule	n received. n received in Applicat nts have been receive e 17.2(a)).	ion No ed in this National St	tage		
Attachmei	nt(s)						
	ce of References Cited (PTO-892)	TO 040	4) Interview Summary				
3) 🔲 Info	ce of Draftsperson's Patent Drawing Review (Prmation Disclosure Statement(s) (PTO-1449 or er No(s)/Mail Date		Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		52)		

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DETAILED ACTION

Applicant's response filed on May 20, 2004 has been entered and made of record. The rejection under 35 U.S.C. under 102 (a) is expressly withdrawn because the verified English translation of Japanese Patent Application 11-168690 filed under 37 C.F.R. 1.111.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless —

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-5 and 10-11 are rejected under 35 U.S.C. 102(a) as being anticipated by the article "Illumination cones for recognition under variable lighting" to Georghiades et al. (Georghiades98)

As to claim 1, Geroghiades98 discloses an image processing apparatus comprising:

a landmark amount (surface point of pixels page 53 section 2)input unit to input an object image includes in an input image (page 53, note that X represents a surface points of image);

an image pickup condition input unit to input an image pickup condition (lighting or poses) of capturing the input image (abstract, page 53-54, section 2-section3 and page 54, note that lighting sources affects are added in equation 2);

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an image space formation unit (constructing feature space) to form an image space by applying a statistical method (page 57, PCA) on a plurality of the landmark amounts input and image pickup conditions with respect to a plurality of object images (page 57 section 5-6).

As to claims 10 and 11, Claims 10-11 are the corresponding method and recording medium claims to claim 1. The discussions are addressed with regard to claim1.

As to claim 2, Murata further discloses the landmark amounts includes a plurality of coordinate values (pixel position) to identify a shape of the object image (page 56, section 3.3 notte that GBR surface represents shape of object image).

As to claims 3-5, Geroghiades98 further discloses landmark amounts including gray level data of texture of object (page 53), illumination (abstract) and depth direction data (shadows) for forming 3D face image (page 56, section 2).

Contact Information

Any inquiry concerning this communication or earlier communications should be directed to Jingge Wu whose telephone number is (703) 308-9588. He can normally be reached Monday through Thursday from 8:00 am to 5:30 pm. The examiner can be also reached on second alternate Fridays.

Any inquiry of a general nature or relating to the status of this application should be directed to TC customer service whose telephone number is (703) 306-0377.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Amelia Au, can be reached at (703) 308-6604.

The Working Group Fax number is (703) 872-9314.

Jingge Wa

rimary Patent Examiner